PAGE: 1
RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/717,294*
DATE: 12/04/97
TIME: 15:08:55

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B. Nelson **1818**

This Raw Listing contains the General
Information Section and up to the first 5 pages.

```
 1                                        SEQUENCE LISTING
 2
 3    (1)     General Information
 4
 5            (i) APPLICANT: SEED, BRIAN
 6                           HAAS, JURGEN
 7
 8            (ii) TITLE OF THE INVENTION: HIGH LEVEL EXPRESSION OF
 9                      PROTEINS
10
11            (iii) NUMBER OF SEQUENCES: 110
12
13            (iv) CORRESPONDENCE ADDRESS:
14               (A) ADDRESSEE: Clark & Elbing LLP
15               (B) STREET: 176 Federal Street
16               (C) CITY: Boston
17               (D) STATE: MA
18               (E) COUNTRY: USA
19               (F) ZIP: 02110
20
21            (v) COMPUTER READABLE FORM:
22               (A) MEDIUM TYPE: Diskette
23               (B) COMPUTER: IBM Compatible
24               (C) OPERATING SYSTEM: DOS
25               (D) SOFTWARE: FastSEQ for Windows Version 2.0
26
27            (vi) CURRENT APPLICATION DATA:
28               (A) APPLICATION NUMBER: 08/717,294
29               (B) FILING DATE: 20-SEP-1996
30               (C) CLASSIFICATION:
31
32            (vii) PRIOR APPLICATION DATA:
33               (A) APPLICATION NUMBER:
34               (B) FILING DATE:
35
36            (viii) ATTORNEY/AGENT INFORMATION:
37               (A) NAME: Elbing, Karen L
38               (B) REGISTRATION NUMBER: 35,238
39               (C) REFERENCE/DOCKET NUMBER: 00786/345001
40
41            (ix) TELECOMMUNICATION INFORMATION:
42               (A) TELEPHONE: 617-428-0200
43               (B) TELEFAX: 617-428-7045
44               (C) TELEX:
45
46
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```
47              (2) INFORMATION FOR SEQ ID NO:1:
48
49         (i) SEQUENCE CHARACTERISTICS:
50            (A) LENGTH: 24 base pairs
51            (B) TYPE: nucleic acid
52            (C) STRANDEDNESS: single
53            (D) TOPOLOGY: linear
54
55         (ii) MOLECULE TYPE: Other
56
57         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58
59  CGCGGGCTAG CCACCGAGAA GCTG                                          24
60
61              (2) INFORMATION FOR SEQ ID NO:2:
62
63         (i) SEQUENCE CHARACTERISTICS:
64            (A) LENGTH: 195 base pairs
65            (B) TYPE: nucleic acid
66            (C) STRANDEDNESS: single
67            (D) TOPOLOGY: linear
68
69         (ii) MOLECULE TYPE: Other
70
71         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
72
73  ACCGAGAAGC TGTGGGTGAC CGTGTACTAC GGCGTGCCCG TGTGGAAGAG AGGCCACCAC    60
74  CACCCTGTTC TGCGCCAGCG ACGCCAAGGC GTACGACACC GAGGTGCACA ACGTGTGGGC   120
75  CACCCAGGCG TGCGTGCCCA CCGACCCCAA CCCCCAGGAG GTGGAGCTCG TGAACGTGAC   180
76  CGAGAACTTC AACAT                                                    195
77
78              (2) INFORMATION FOR SEQ ID NO:3:
79
80         (i) SEQUENCE CHARACTERISTICS:
81            (A) LENGTH: 34 base pairs
82            (B) TYPE: nucleic acid
83            (C) STRANDEDNESS: single
84            (D) TOPOLOGY: linear
85
86         (ii) MOLECULE TYPE: Other
87
88         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
89
90  CCACCATGTT GTTCTTCCAC ATGTTGAAGT TCTC                               34
91
92              (2) INFORMATION FOR SEQ ID NO:4:
93
94         (i) SEQUENCE CHARACTERISTICS:
95            (A) LENGTH: 33 base pairs
96            (B) TYPE: nucleic acid
97            (C) STRANDEDNESS: single
98            (D) TOPOLOGY: linear
99
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100              (ii) MOLECULE TYPE: Other
101
102              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
103
104    GACCGAGAAC TTCAACATGT GGAAGAACAA CAT                              33
105
106                  (2) INFORMATION FOR SEQ ID NO:5:
107
108              (i) SEQUENCE CHARACTERISTICS:
109                 (A) LENGTH: 192 base pairs
110                 (B) TYPE: nucleic acid
111                 (C) STRANDEDNESS: single
112                 (D) TOPOLOGY: linear
113
114              (ii) MOLECULE TYPE: Other
115
116              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
117
118    TGGAAGAACA ACATGGTGGA GCAGATGCAT GAGGACATCA TCAGCCTGTG GGACCAGAGC   60
119    CTGAAGCCCT GCGTGAAGCT GACCCCCTGT GCGTGACCTG AACTGCACCG ACCTGAGGAA  120
120    CACCACCAAC ACCAACACAG CACCGCCAAC AACAACAGCA ACAGCGAGGG CACCATCAAG  180
121    GGCGGCGAGA TG                                                     192
122
123                  (2) INFORMATION FOR SEQ ID NO:6:
124
125              (i) SEQUENCE CHARACTERISTICS:
126                 (A) LENGTH: 33 base pairs
127                 (B) TYPE: nucleic acid
128                 (C) STRANDEDNESS: single
129                 (D) TOPOLOGY: linear
130
131              (ii) MOLECULE TYPE: Other
132
133              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
134
135    GTTGAAGCTG CAGTTCTTCA TCTCGCCGCC CTT                              33
136
137                  (2) INFORMATION FOR SEQ ID NO:7:
138
139              (i) SEQUENCE CHARACTERISTICS:
140                 (A) LENGTH: 31 base pairs
141                 (B) TYPE: nucleic acid
142                 (C) STRANDEDNESS: single
143                 (D) TOPOLOGY: linear
144
145              (ii) MOLECULE TYPE: Other
146
147              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
148
149    GAAGAACTGC AGCTTCAACA TCACCACCAG C                                31
150
151                  (2) INFORMATION FOR SEQ ID NO:8:
152
```

```
153            (i) SEQUENCE CHARACTERISTICS:
154              (A) LENGTH: 195 base pairs
155              (B) TYPE: nucleic acid
156              (C) STRANDEDNESS: single
157              (D) TOPOLOGY: linear
158
159            (ii) MOLECULE TYPE: Other
160
161            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
162
163  AACATCACCA CCAGCATCCG CGACAAGATG CAGAAGGAGT ACGCCCTGCT GTACAAGCTG        60
164  GATATCGTGA GCATCGACAA CGACAGCACC AGCTACCGCC TGATCTCCTG CAACACCAGC       120
165  GTGATCACCC AGGCCTGCCC CAAGATCAGC TTCGAGCCCA TCCCCATCCA CTACTGCGCC       180
166  CCCGCCGGCT TCGCC                                                        195
167
168            (2) INFORMATION FOR SEQ ID NO:9:
169
170            (i) SEQUENCE CHARACTERISTICS:
171              (A) LENGTH: 30 base pairs
172              (B) TYPE: nucleic acid
173              (C) STRANDEDNESS: single
174              (D) TOPOLOGY: linear
175
176            (ii) MOLECULE TYPE: Other
177
178            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
179
180  GAACTTCTTG TCGGCGGCGA AGCCGGCGGG                                         30
181
182            (2) INFORMATION FOR SEQ ID NO:10:
183
184            (i) SEQUENCE CHARACTERISTICS:
185              (A) LENGTH: 47 base pairs
186              (B) TYPE: nucleic acid
187              (C) STRANDEDNESS: single
188              (D) TOPOLOGY: linear
189
190            (ii) MOLECULE TYPE: Other
191
192            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
193
194  GCGCCCCCGC CGGCTTCGCC ATCCTGAAGT GCAACGACAA GAAGTTC                      47
195
196            (2) INFORMATION FOR SEQ ID NO:11:
197
198            (i) SEQUENCE CHARACTERISTICS:
199              (A) LENGTH: 198 base pairs
200              (B) TYPE: nucleic acid
201              (C) STRANDEDNESS: single
202              (D) TOPOLOGY: linear
203
204            (ii) MOLECULE TYPE: Other
205
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206              (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
207
208    GCCGACAAGA AGTTCAGCGG CAAGGGCAGC TGCAAGAACG TGAGCACCGT GCAGTGCACC          60
209    CACGGCATCC GGCCGGTGGT GAGCACCCAG CTCCTGCTGA ACGGCAGCCT GGCCGAGGAG         120
210    GAGGTGGTGA TCCGCAGCGA GAACTTCACC GACAACGCCA AGACCATCAT CGTGCACCTG         180
211    AATGAGAGCG TGCAGATC                                                      198
212
213            (2) INFORMATION FOR SEQ ID NO:12:
214
215            (i) SEQUENCE CHARACTERISTICS:
216               (A) LENGTH: 34 base pairs
217               (B) TYPE: nucleic acid
218               (C) STRANDEDNESS: single
219               (D) TOPOLOGY: linear
220
221            (ii) MOLECULE TYPE: Other
222
223            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
224
225    AGTTGGGACG CGTGCAGTTG ATCTGCACGC TCTC                                     34
226
227            (2) INFORMATION FOR SEQ ID NO:13:
228
229            (i) SEQUENCE CHARACTERISTICS:
230               (A) LENGTH: 30 base pairs
231               (B) TYPE: nucleic acid
232               (C) STRANDEDNESS: single
233               (D) TOPOLOGY: linear
234
235            (ii) MOLECULE TYPE: Other
236
237            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
238
239    GAGAGCGTGC AGATCAACTG CACGCGTCCC                                          30
240
241            (2) INFORMATION FOR SEQ ID NO:14:
242
243            (i) SEQUENCE CHARACTERISTICS:
244               (A) LENGTH: 120 base pairs
245               (B) TYPE: nucleic acid
246               (C) STRANDEDNESS: single
247               (D) TOPOLOGY: linear
248
249            (ii) MOLECULE TYPE: Other
250
251            (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
252
253    AACTGCACGC GTCCCAACTA CAACAAGCGC AAGCGCATCC ACATCGGCCC CGGGCGCGCC          60
254    TTCTACACCA CCAAGAACAT CATCGGCACC ATCCTCCAGG CCCACTGCAA CATCTCTAGA         120
255
256            (2) INFORMATION FOR SEQ ID NO:15:
257
258            (i) SEQUENCE CHARACTERISTICS:
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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION   *US/08/717,294*

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